

INTISARI

Telah dilakukan penyelidikan geofisika dengan metode gaya berat di daerah Batur. Penyelidikan ini dimaksudkan untuk melacak alur sesar yang terdapat di bagian tengah kaldera Batur.

Pengumpulan data dengan menggunakan Gravimeter Lacosta & Romberg G.928. Alat tersebut berguna untuk mengukur variasi harga g di daerah penelitian.

Setelah dilakukan koreksi pasang surut, drift, udara bebas, koreksi Bouguer dan topografi diperoleh harga anomali Bouguer. Yang kemudian dibuat konturnya.

Dengan metode turunan vertikal kedua diperoleh alur sesar yang dicari. Yang ternyata berarah relatif tenggara - barat laut berbelok ke timur laut.

ABSTRACT

A geophysical survey using gravity method has been carried out in Batur. This survey had an order to get some information about the straightness of fault.

Data collecting in this area was done by using Gravimeter Lacosta & Romberg G.928. Gravimeter was used for measure gravity variation on earth.

A lot of correction was done. With tidal correction, drift correction, free air correction, Bouguer correction and terrain correction we found the value of anomaly Bouguer. Based on these anomaly value a contour map was made.

By using second vertical derivative method, straightness of fault were obtained. The straightness of fault is on south-east - north-west and turn to north-east.